JUPITER

High-end Ultra HR Earth Observation Payload

Empowered by three decades of space heritage, 100% mission success, state of the art development and manufacturing technologies, JUPITER is the most advanced high-end Remote Sensing space Payload developed by Elbit Systems ISTAR & EW Division for Mini satellites.

The Jupiter payload provides high spatial resolution imagery utilizing a well proven design with significant operational heritage.

Compact size and low weight, enable easy integration with diverse satellite platforms and provides high quality data, allowing diverse applications for defense, commercial and scientific customers.

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Main Advantages & Key Features

- **Wide Swath with high resolution - native 30cm GSD @ 450Km**
- **Multi-Spectral channels adjustable configurations**
- **Designed for advanced user-centric analytics and applications**
- **Compact size and ultra lightweight**

Designed for Multi-Domain GEOINT applications

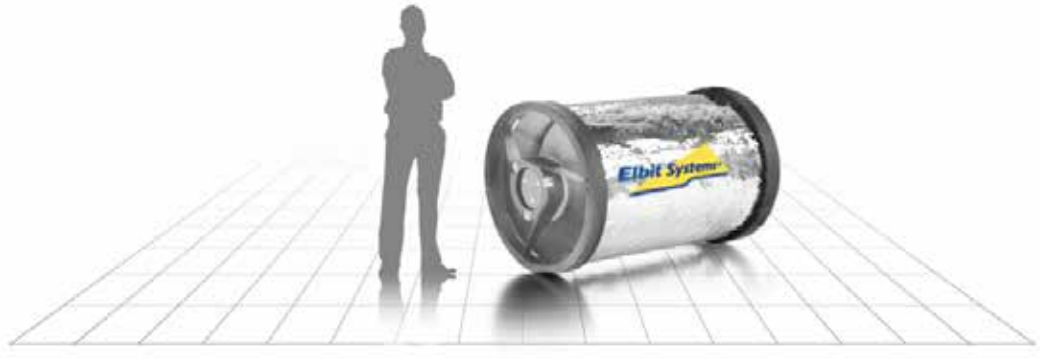
Leveraging Elbit Systems' data extraction engines and analytics tools, the data collected by JUPITER payload is inherently designed to support various GEOINT and Multi-Domain intelligence platforms.

Applications

- **Advanced military surveillance and reconnaissance capabilities**
  - High resolution imaging of large areas with high GEO accuracy and spatial fidelity
  - Various imaging modes enabling advanced analytics (ATR, MTI etc) and AI-driven targets investigation
- **High resolution with geolocation accuracy commercial applications:**
  - Environmental mapping and monitoring
  - Detailed energy and infrastructure planning
- **Natural and man-made resources**

Technical Specification

- PAN GSD @ 450Km	30cm
- MS GSD @ 450Km	1.2m
- Swath @ 450Km	12Km
- Aperture	70cm
- PAN & MS Spectral range (µm)	0.45 - 0.9
- MS spectral channels	6 channels (configurable)
- Mass (Kg)	<130
- Peak Power (W)	200 - 240
- Lifetime (Yr)	Designed for 8 years



Elbit Systems™ ISTAR & EW

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